

A B S T R A C T

The present invention relates mainly to reaction vessels, to sets of such vessels for automatic immunological assay apparatuses, to automatic immunological assay apparatuses making use of such sets of vessels, and to a method implementing sets of such vessels. According to the present invention, photometric detection is implemented of the luminescence of a reaction mixture found in a reaction vessel, the apparatus and/or the vessel guaranteeing light-tightness so as to prevent entry of external light falsifying the measurement. Advantageously, sets of vessels in accordance with the present invention are made out of a material that is opaque. The present invention is particularly applicable to detecting the presence of a chemical or a biological substance in a sample. The present invention applies mainly to medical analysis and research.